



Applicants have added new claims 83-85.

Applicants submit that the newly presented claims are directed to allowable subject matter and respectfully request entry. The claims are supported by the specification as detailed below.

RECEIVED
AUG 20 2001
RECEIVED
AUG 29 2001
TC 1700

	New Claims	Applicants' Disclosure
83.	A micro-sonicator for spore or cell lysis comprising: a container having a cavity therein adapted to contain spore or cell samples,	Page 4, lines 30-31; page 5, lines 7-9; page 107, lines 13-17.
	a quantity of ultrasonic transmission media in said cavity,	Page 5, line 25-31; page 87, line 28 through page 88, line 4.
	at least a membrane positioned to cover said cavity,	Page 5, lines 9-12; page 66, lines 24-32.
	piezoelectric material positioned on said membrane,	Page 17, line 25; page 18, lines 1-3.
	and means for causing flexing of said piezoelectric material and vibration of said membrane thereby causing ultrasonic excitation of the transmission media adapted to cause lysis of spore or cell samples in said cavity.	Page 5, lines 10-18; page 17, lines 25-26; page 66, line 22 through page 67, line 3; page 79, line 29 through page 80, line 2.
84.	In a micro-fluidic system, the improvement comprising: a micro-sonicator for spore and cell lysis using ultrasonic excitation of the spore or cell,	Title, page 1, line 9; page 4, lines 30-31; page 17, lines 24-26; page 67, lines 1-3.
	said micro-sonicator including a container having a cavity therein and containing ultrasonic transmission media,	Page 5, lines 7-10; page 87, line 28 through page 88, line 4.
	a membrane positioned over said cavity,	Page 5, line 9; page 66, lines 24-32.
	and means for causing vibration of said membrane producing ultrasonic excitation of spore or cell located in said cavity.	Page 5, lines 11-13; page 17, lines 24-26; page 66, line 22 through page 67, line 3; page 107, lines 13-28.

85.	A device for spore or cell lysis comprising: a container having a chamber for holding spore or cell samples,	Page 4, lines 30-31; page 5, lines 7-9; page 107, lines 13-17.
	a quantity of ultrasonic transmission media in said chamber,	Page 5, line 25-31; page 87, line 28 through page 88, line 4.
	a membrane forming at least one wall of the chamber, and	Page 5, lines 9-12; page 66, lines 24-32.
	an ultrasonic transducer in contact with said membrane for transmitting ultrasonic waves to the chamber.	Page 5, lines 10-18; page 17, lines 15-26; page 66, line 22 through page 67, line 3; page 79, line 29 through page 80, line 2; page 107, lines 13-15.

Entry of the amendment is requested.

Respectfully submitted,

By: 

William Schmonsees
Attorney for Applicants
Registration No. 31,796

Date: August 8, 2001

Heller Ehrman White & McAuliffe LLP
275 Middlefield Road
Menlo Park, CA 94025-3506
Direct Dial: (650) 324-7104
Facsimile: (650) 324-0638